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Volume 37 Issue 11

The objective of this work is to define, implement and illustrate a portable serialization technique for CORBA objects. We propose an approach based on reflection: through open compilers facilities the internal state of CORBA objects is obtained and transformed into a language independent format using CORBA mechanisms. This state can be restored and used by objects developed using different languages and running on different software platforms. A tool was developed and applied to a Chat applicat ...

2 [Web-based specification and integration of legacy services](#) 100% Ying Zou , Kostas Kontogiannis**Proceedings of the 2000 conference of the Centre for Advanced Studies on Collaborative research** November 2000

With the explosive growth of the Internet, businesses of all sizes aim on applying networkwide solutions to their IT infrastructures, migrating their legacy business processes into web-based environments, and establishing their own on-line services. To facilitate process and service integration, a complete and information rich service description language, is essential for server processes to be specified and for client processes to be able to locate services that are available in Web-enabled re ...

3 [DROOPI: towards a generic middleware](#) 100% Thomas Quinot , Fabrice Kordon , Laurent Pautet


ACM SIGAda Ada Letters June 2001

Volume XXI Issue 2

This paper presents our work to bridge the Ada 95 Distributed Systems Annex (DSA) and CORBA to take advantages of both environments facilities. Our project consists in two successive steps. The first one is CIAO, a DSA to CORBA translator. The second one aims at the definition of a generic middleware to be customized to DSA and CORBA. We propose a definition and an architecture of services for a generic middleware, *DROOPI*, and explain how it can be customized according various cr ...

4 CORBA and CORBA services for DSA

100%

 Laurent Pautet , Thomas Quinot , Samuel Tardieu


ACM SIGAda Ada Letters , Proceedings of the 1999 annual ACM SIGAda international conference on Ada September 1999

Volume XIX Issue 3

Comparing CORBA and the Ada 95 Distributed Systems Annex shows that an advantage of CORBA is its Common Object Services, providing standard, frequently-used components for distributed application development. This paper presents our implementation of similar services for the DSA. We also introduce new developments of our team that aim at providing close interaction between CORBA and Ada applications. Part of the work presented here was accomplished by the AdaBroker team: Fabien Azavant, Emmanuel ...

5 OMG overview: CORBA and the OMA in enterprise computing

100%


 Jon Siegel

Communications of the ACM October 1998

Volume 41 Issue 10

6 Customizing IDL mappings and ORB protocols

99%


 Girish Welling , Maximilian Ott

IFIP/ACM International Conference on Distributed systems platforms April 2000

Current mappings of IDL to implementation languages such as C++ or Java use CORBA specific data-types, which makes it imperative for an object implementation to be CORBA-compliant. While being completely CORBA-compliant ensures portability *and* interoperability, several classes of enterprise applications may *only* require interoperability with other CORBA applications. Other applications may be constrained by such factors as a large existing code-base or a widely used communicatio ...

7 Flick: a flexible, optimizing IDL compiler

99%

 Eric Eide , Kevin Frei , Bryan Ford , Jay Lepreau , Gary Lindstrom

ACM SIGPLAN Notices , Proceedings of the ACM SIGPLAN 1997 conference on Programming language design and implementation May 1997

Volume 32 Issue 5

An interface definition language (IDL) is a nontraditional language for describing interfaces between software components. IDL compilers generate "stubs" that provide separate communicating processes with the abstraction of local object invocation or procedure call. High-quality stub generation is essential for applications to benefit from component-based designs, whether the components reside on a single computer or on multiple networked hosts. Typical IDL compilers, ...

- 8 Distributed systems using CORBA and Ada 99%
[A] Victor Giddings
ACM SIGAda Ada Letters September 1996
Volume XVI Issue 5
- 9 Java 2 distributed object middleware performance analysis and optimization 99%
[A] Matjaz B. Juric , Ivan Rozman , Simon Nash
ACM SIGPLAN Notices August 2000
Volume 35 Issue 8
This paper is focused on the performance analysis, comparison and optimization of distributed object middleware for Java 2: RMI (Remote Method Invocation), CORBA IDL (Interface Definition Language) and RMI-IIOP (Remote Method Invocation on Internet Inter-ORB Protocol). The paper presents the following contributions to the research on distributed object performance. First, a detailed performance analysis is provided with the comparison. These results help to understand how the models perform. Sec ...
- 10 The OMG, CORBA, Orbix and Ada 99%
[A] David Clarke
ACM SIGAda Ada Letters May 1997
Volume XVII Issue 3
An Object Request Broker (ORB) mediates between applications - including distributed ones. This document presents the design goals and philosophy that lead IONA Technologies to produce the object request broker, Orbix. The Ada language binding is described, and some simple programming examples are given to illustrate its operation. The introduction discusses the needs for ORBs and the industry initiatives that arose from that need - culminating in the OMG's CORBA specifications.
- 11 System object model (SOM) and Ada: an example of CORBA at work 99%
[A] G. Vincent Castellano
ACM SIGAda Ada Letters May 1996
Volume XVI Issue 3
IBM's system object Model (SOM) provides a powerful toolset for building object-oriented applications in multiple languages on multiple platforms. It is fully compliant with the Object Management Group's (OMG) Common Request Broker Architecture (CORBA). OC System' PowAda product allows Ada95 programmers “first-class” access to SOM. This article describes the use of SOM classes to build a simple “groupware” application in Ada95.
- 12 Workshop on compositional software architectures: workshop report 98%
[A] **ACM SIGSOFT Software Engineering Notes** May 1998
Volume 23 Issue 3
- 13 Transport layer abstraction in event channels for embedded systems 98%
[A] Ravi Pratap M , Ron K. Cytron , David Sharp , Edward Pla
ACM SIGPLAN Notices , Proceedings of the 2003 ACM SIGPLAN conference on Language, compiler, and tool for embedded systems June 2003

Volume 38 Issue 7

As embedded systems increase in complexity and begin to participate in distributed systems, the need for middleware in building such systems becomes imperative. However, the use of middleware that fully implements such standards can impose a significant increase in footprint for an application, making it unsuitable for use in embedded systems. We consider the use of a standard CORBA event channel in a setting where distribution and inter-language support are unnecessary. We report our experience ...

14 Measuring the performance of communication middleware on high-speed networks

98%

✚ Aniruddha Gokhale , Douglas C. Schmidt

ACM SIGCOMM Computer Communication Review , Conference proceedings on Applications, technologies, architectures, and protocols for computer communications
August 1996

Volume 26 Issue 4

Conventional implementations of communication middleware (such as CORBA and traditional RPC toolkits) incur considerable over-head when used for performance-sensitive applications over high-speed networks. As gigabit networks become pervasive, inefficient middleware will force programmers to use lower-level mechanisms to achieve the necessary transfer rates. This is a serious problem for mission/life-critical applications (such as satellite surveillance and medical imaging). This paper compares t ...

15 Technical papers: software design: DADO: enhancing middleware to support crosscutting features in distributed, heterogeneous systems

98%

✚ Eric Wohlstadter , Stoney Jackson , Premkumar Devanbu

Some "non-" or "extra-functional" features, such as reliability, security, and tracing, defy modularization mechanisms in programming languages. This makes such features hard to design, implement, and maintain. Implementing such features within a single platform, using a single language, is hard enough. With distributed, heterogeneous (DH) systems, these features induce complex implementations which cross-cut different languages, OSs, and hardware platforms, while still needing to share data and ...

16 Designing an Efficient and Scalable Server-side Asynchrony Model for CORBA

98%

✚ Darrell Brunsch , Carlos O'Ryan , Douglas C. Schmidt

ACM SIGPLAN Notices August 2001

Volume 36 Issue 8

When the Asynchronous Method Invocation (AMI) model was introduced into the CORBA specification, client applications benefited from the ability to invoke non-blocking two-way requests. In particular, AMI improved the scalability of clients by removing the restrictions associated with Synchronous Method Invocations (SMI). Server request handling remained synchronous, however, which minimized the benefits of AMI for middle-tier servers, such as firewall gateways and front-end database servers. This ...

17 A CORBA facility for network simulation

98%

✚ Chien-Chung Shen

Proceedings of the 28th conference on Winter simulation November 1996

18 The specification of distributed objects: liveness and locality

98%


✚ Paolo A. G. Sivilotti , Charles P. Giles

Proceedings of the 1999 conference of the Centre for Advanced Studies on Collaborative research November 1999

There are two aspects to the behavioral specification of an object in a distributed system: safety and liveness. This paper describes our component-based mechanism for specifying liveness. The specification of a distributed object is typically a syntactic definition of its interface (e.g., the method signatures). Several proposals exist for extending these syntactic definitions to provide behavioral information (e.g., preconditions and postconditions). However, many of these proposals have failed ...

19 Formal specification of CORBA services: experience and lessons learned

98%

 Rémi Bastide , Philippe Palanque , Ousmane Sy , David Navarre**ACM SIGPLAN Notices , Proceedings of the conference on Object-oriented programming, systems, languages, and applications** October 2000


Volume 35 Issue 10

CORBA is now established as one of the main contenders in object-oriented middleware.

Beyond the definition of this standard for distributed object systems, the Object Management Group (OMG) has specified several object services (Common Object Services, COS) that should foster the interoperability of distributed applications. Based on experiment, the goal of this paper is to show that the OMG's style of specification of the CORBA services is not suited to guarantee that implementers will produce ...

20 Sharing manufacturing information in virtual enterprises

98%

 Martin Hardwick , David L. Spooner , Tom Rando , K. C. Morris**Communications of the ACM** February 1996

Volume 39 Issue 2

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